

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A method for screening for or diagnosing a growth-promoting state in a non-pregnant patient, said method comprising:

detecting a level of pregnancy-associated plasma protein-A (PAPP-A) in a biological sample from said non-pregnant patient, wherein said level of PAPP-A is measured as amount of PAPP-A protein; and

comparing said level of PAPP-A in said non-pregnant patient to a standard level of PAPP-A in non-pregnant patients, wherein an increase in said level of PAPP-A in said non-pregnant patient indicates the presence of said growth-promoting state.

2. (Currently Amended) The method of claim 1, wherein said growth-promoting state is restenosis, atherosclerosis, ovulation, wound healing, or fibrosis, or cancer.

3-5. (Canceled)

6. (Currently Amended) The method of claim [[4]] 1, wherein said amount of PAPP-A protein is detected immunologically.

7. (Currently Amended) The method of claim [[6]] 1, wherein said amount of PAPP-A protein is detected by at least one monoclonal antibody.

8. (Original) The method of claim 1, wherein said biological sample is selected from the group consisting of blood, urine, pleural fluid, oral washings, tissue biopsies, and follicular fluid.

9. (Original) The method of claim 1, wherein said biological sample is blood.

10. (Canceled)

11. (Original) The method of claim 1, wherein said PAPP-A is detected as a dimer of PAPP-A.

12. (Original) The method of claim 1, wherein said PAPP-A is detected as a monomer of PAPP-A.

13-35. (Canceled)

36. (Original) A method for detecting PAPP-A in a biological sample comprising contacting said biological sample with an antibody having specific binding affinity for PAPP-A, but not PAPP-A/pro major basic protein complex, to detect PAPP-A in said biological sample.